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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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MEETING ON CRYSTAL RIVER LICENSE TERMINATION PLAN

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TUESDAY,

MAY 12, 2026

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The meeting was convened via
videoconference, at 5:30 p.m. EST, Chris Allen,
Project Manager, presiding.

PRESENT:

CHRIS ALLEN, Project Manager, Office of Nuclear
Material Safety and Safeguards

CHRISTINE NAZER, Public Affairs Officer, Office of
Public Affairs

ANDREW TAVERNA, Health Physicist Inspector, Region 1

JADE WHITE, NRC

ALSO PRESENT:

MASON KOZAC, Florida Division of Emergency Management

RON TYRIE, Member of the public

P-R-O-C-E-E-D-I-N-G-S

5:30 p.m.

MR. ALLEN: All right. Good evening, everybody. It's 5:30, so we'll go ahead and get started. My name is Chris Allen. I'm the project manager for the Crystal River Plant on the -- and as they're decommissioning. This meeting is to discuss the license termination plan, which they have submitted for the NRC's review. I'm going to start off the meeting by going around and introducing folks and letting -- so that we can know who's in attendance.

I'm going to start off by reading the folks that are participating online. I may need to ask them for some help if I don't recognize the names, but I may not necessarily know where they -- with which group they are. But -- so I may be asking for a little bit of help.

We have Amy Minor, who is the environmental project manager for the review -- for the review of the LTP. We have Andrew Taverna, who is the Region 1 inspector that frequently interacts with the -- at Crystal River. In the room, we also have Ariano Munden, who is a low-level waste project -- excuse me, branch chief. We also have Christine

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Nazer.

Hopefully I pronounced your name -- last name right, Christine.

She is the Office of --

Excuse me. What is OPA again, Christine, please?

MS. NAZER: The Office of Public Affairs.

MR. ALLEN: Thank you.

Then we also have Doug Tifft from Region 1, I believe.

Doug, could you let us know what your role is? Doug? Okay. Well, we'll move on.

MS. WHITE: He isn't here.

MR. ALLEN: Thank you.

Gordon Madison. Can you -- could you unmute your mic? Gordon?

All right. Hopefully we're not having trouble with people interacting online. Then we have Keion Henry. I think he's a State liaison for Region 2. Leah Wilkins is Office of Congressional Affairs.

And, Mason Kozac, can you tell us -- can you unmute yourself?

MR. KOZAC: Hey, good afternoon, everybody. Mason Kozac with the Florida Division of Emergency Management inside our technical hazards

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section, one of our radiological coordinators for the State.

MR. ALLEN: Thank you.

We also have Mitchell Dehmer, who is an environmental technical reviewer. We have Randy Fedors, who is the hydrogeologist participating in the review of the license termination plan. We have Scott Burnell, who is with the Office of Public Affairs.

Sorry, Scott.

And then we also have Stewart Bland, who is associated with Accelerated Decommissioning Partners, the licensee for the plant. In the room, we have Michelle Sutherland, the branch chief for radiological -- excuse me, reactor decommissioning branch. We have Greg Chapman, who's the health physicist assigned to review the license termination plan for Crystal River. We also have Billy Reid, who is with North Star. He is the site plant EDP. We also have Gean Flavors with Duke Energy. We have Ron Tiery --

MR. TYRIE: Tyrie.

MR. ALLEN: Tyrie. Thank you.

A member of the public. We have Mike Deberry? Deberry, my apologies there, with North Star, John Jernigan with North Star, Marshall Blake

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with North Star, Tristan Tritch, North Star, and Scott Hill with TSSD.

All right. With that, I wanted to also make everyone aware that the presentation that we're -- that's being shown tonight is publicly available. It can be accessed in the NRC's Document Access Management System, ADAMS, using the following accession number: ML26131A348.

And with that, I think we'll go ahead and begin.

If we could go to the, excuse me, next slide.

So for the agenda tonight, I'll be discussing the regulatory requirements. I'll also be trying to give an overview of the decommissioning process. I will discuss previous site partial site releases that have occurred at Crystal River. I will be talking about the contents of the application, discuss the license termination process, as well as there will also be a discussion of the inspection program. Then we'll go about how the public can provide meeting comments. And we'll also -- I'll also talk about how they -- we can get feedback on the public meeting, and then there will be a comment period.

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Next slide.

So the regulations require, in 10 CFR 50.2, that decommissioning, at least it's discussed, I should say, in 10 CFR 50.2, "Decommissioning is removing a facility or site safely from service and reducing radioactivity to a level that permits release of the property for unrestricted use and termination of the license, or release of the property under restricted conditions and termination of the license."

I just want to take a second here to mention that Accelerated Decommissioning Partners is seeking release of the property without restriction. I have included both of those simply for completeness.

From 10 CFR 50.80(a)(3), it says that "Decommissioning must be complete within 60 years of permanent cessation of operations."

Next slide, please.

In 10 CFR 20, Subpart E, it says that "A site is acceptable for unrestricted use if residual activity distinguishable from background has been reduced as low as reasonably achievable and results in a total effective dose equivalent to an average member of the critical group that does not exceed 25 millirem per year."

And I wanted to just elaborate or make it

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known that the 25 millirem per year, that accounts for radiation exposure from all possible pathways.

Next slide, please.

So what the -- something that the regulations do not require is that a specific end state be identified in the license termination plan. That is determined by the licensee as they work within State requirements, local requirements, or any other agreements that might be in place to determine what the final condition of the site will be. On the screen here, I have a couple of pictures from a previous -- another site that has been decommissioned named Maine Yankee. The picture on the left is when they were operating. And then the picture on the right is after the decommissioning was complete.

Next slide, please.

The regulations also do not require dismantlement of structures or the removal of decontaminated buildings or site restoration. An example of this would be what occurred at Rancho Seco.

As you can see, there -- there's a picture of Rancho Seco on the left when it was operating. And the picture on the right shows what was the status of the site after the decommission -- after the license termination plan was approved. You can still see some

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of the buildings that were left from the -- that are left on site.

Next slide, please.

So this one -- this slide shows -- provides kind of like an overview of the reactor decommissioning process. Just to give a little bit of an understanding, lots -- excuse me, arrows that go -- point up and down basically show the next step in the process. Arrows that go from side to side sort of show in which direction information is flowing.

So the first -- in the first step, licensee notifies the NRC that either it has ceased or will cease operation. And they also notify us when all fuel has been removed from the reactor vessel. We, the NRC, acknowledge receipt of that information and make all the correspondence available to the public.

So for Crystal River, that specific -- in that specific instance, Duke Energy Florida, who was the licensed operator of the plant at the time it shut down, made that -- made those notifications on February 20th of 2013. And in that same letter, when they noted -- when they noted that reactors -- that the reactor shut down and had stopped, they also notified us of the date fuel was removed, which was

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May 28th of 2011.

So the next step in the process, the licensee develops a post-shutdown decommissioning activities report, or PSDAR, which is a high-level description of decommissioning activities, as well as a high level timeline of performing those activities.

The PSDAR also discusses why previous environmental reviews already cover the decommissioning activities, and it provides a site-specific decommissioning cost estimate.

So Duke Energy submitted their PSDAR on June 26th, 2019. The NRC reviewed the PSDAR, made it available for public comment. As part of the review, we also conducted a public meeting in the vicinity of the site. So -- and that gave the public an opportunity to review what would happen and provide comments and feedback.

So the PSDAR was found acceptable. The NRC issued -- and the NRC issued a letter of notifying -- noticing acceptance of the PSDAR. If the licensee chose -- chooses to review -- revise the PSDAR, the NRC will also make it available to the public, and, if appropriate, accept it. However, we will not be conducting another public meeting just because a revised PSDAR is submitted. So I just wanted to make

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that part clear.

So after the PSDAR is accepted, the licensee proceeds on with decommissioning activities.

As they progress, at least two years before the license expiration date, they need to -- they need to submit a license termination plan to identify remaining decommissioning and decontamination activities to be performed. They need to update the decommissioning cost estimate and supplement the environmental report with any new information or significant changes caused by decommissioning activities. The NRC makes the LTP available to the public and provides an opportunity for the public to request a hearing. In addition, we'll hold a meeting in the vicinity -- public meeting in the vicinity of the site that gather comments on the plan, which is what we're doing tonight.

If the LTP is found acceptable, we approve the LTP by amending the license. So after completing all the decommissioning activities, licensee performs surveys to show that the cleanup criteria have been met, and provides the NRC with documentation demonstrating the cleanup criteria specified in the LTP has been satisfied. We review the documentation and make it available to the public. If it is

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acceptable, we approve termination of the license.

Next slide, please.

This slide is just to sort of get an idea of the background and experience that the NRC has in decommissioning of the variety of license -- licenses.

There are both material sites, research reactors, as well as power reactors.

Next slide, please.

And this slide shows the experience specific to power reactors. It identifies the reactors that are considered in SAFSTOR, which is basically what they're just being -- sitting there and being stored in a safe configuration, as well as the ones that are undergoing decontamination or decon.

Next slide, please.

So in 2019, Duke Energy submitted a request to reduce the licensed footprint by releasing approximately 3,854 acres. Duke Energy successfully demonstrated that any residual radioactivity left on that land was indistinguishable from background, and the NRC approved Duke Energy's partial site release request on January 2nd, 2020.

Next slide, please. There we go.

So in February -- on February 10th of 2025, Accelerated Decommissioning Partners submitted a

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second partial site release request. They requested the removal of an additional 618 acres of the site for unrestricted use. Like Duke Energy, ADP successfully demonstrated that any residual radio activity was indistinguishable from background, and the NRC approved ADP's partial site release request on December 18th of 2025.

Next slide, please.

So the application was submitted on October 15th of 2025. The -- it was submitted. There were a bunch of -- a bunch of documents submitted, so there was a package accession number assigned to it, which you can see on the screen. In addition to that, ADP chose to revise some calculations, and of their own volition submitted an updated LTP on December 15th of 2025, and the ADAMS package accession number is up on the screen.

In response to an NRC request for supplemental information, ADP also supplemented their application on February 25th of 2026, and the ADAMS accession number for that submittal is also on the screen.

Next slide, please.

So the contents of the LTP application, it outlines the site characterization, identification of

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remaining dismantlement activities, plans for site remediation, plans for the final radiation surveys, a description of the end-use if the site -- if there are going to be restrictions on the site, an updated site-specific cost estimate for the remaining costs, and any information necessary to supplement the environmental report.

Next slide, please.

So the technical review of the LTP is ongoing. If necessary, we, the NRC, will request additional information. And if we find the LTP acceptable, we will approve it and amend the license.

Next slide, please.

So for license termination, the licensee performs the final status surveys and develops a final status survey report. So the NRC reviews the final status survey report, inspects the licensee's decommissioning process, performs -- and performs confirmatory surveys. And if the -- and the license is terminated if the LTP was followed and the site meets the release criteria.

Next slide, please.

So ADP has actually already requested some confirmatory surveys for basement surfaces. The NRC contracted Oak Ridge Institute for Science and

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Education to perform these surveys. The first survey occurred on January 5th -- between January 5th and January 9th of 2026, and the second survey is planned for early July. So we will take the results of those surveys and compare them to the acceptance criteria in the LTP to determine if the radioactive material has been sufficiently removed, and we will also perform additional confirmatory surveys if necessary.

Next slide, please.

With that, I'll turn it over to Andrew Taverna, who's going to cover the inspection program for decommissioning reactors.

MR. TAVERNA: Thanks, Chris.

My name is Andrew Taverna, and I am a health physicist inspector for Region 1. And my primary focus is inspection of decommissioning sites, especially power reactors.

So the NRC follows a decommissioning-specific -- the NRC follows a decommissioning-specific process in our inspection manual to ensure licensees are safely evaluating and cleaning up the site in accordance with NRC regulations. The licensee has 60 years to decommission a site. With accelerated decommissioning, that time can be shortened.

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Next slide, please.

So the inspection program for decommissioning reactors is based on the licensee meeting NRC regulations, license-based documents, and guidance documents such as (inaudible) as appropriate.

The program's office staff -- the NRC program office staff will perform licensing reviews as well as safety evaluations of proposed licensee amendments. Regional inspectors like myself, we perform in-office reviews and on-site inspections to ensure that the licensee is following the regulations and their license requirements. And we document the site visits and reviews and inspection reports along with any violations that might be found. If there are any enforcement actions, they'll be taken for violations in accordance with the NRC enforcement policy.

Next slide, please.

So as mentioned earlier, the inspection program is outlined in Inspection Manual Chapter 2561.

Once the fuel is removed from the site -- from a vessel, the licensee enters the inspection program. The inspectors perform oversight and verification of decommissioning projects at the site along with the decommissioning inspection project ends when the license is terminated at the site.

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Next slide, please.

So the NRC objective of the inspection program is to obtain information through direct observation and verification of licensee activities. And this is to determine whether the site is being decommissioned safely, and that, you know, the site operations and license termination activities are in conformance with NRC regulatory requirements and licensing basis, and any commitments and management controls that the licensee has taken upon themselves.

Next slide, please.

So we -- the NRC schedules our inspections to be on site as much as we can during higher-risk activities. We do have the authority to look in great detail at a variety of licensee activities and programs. We have regular meetings or calls with the licensees going over current site activities and upcoming activities. For Crystal River, as an example, we have regularly scheduled meetings every two weeks.

So as the amount and complexity work --

MR. ALLEN: Hey, Andrew?

MR. TAVERNA: Yes?

MR. ALLEN: I'm sorry, you cut out and you went silent for a little bit. Maybe you could back

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up.

MR. TAVERNA: All right. Where do you --

MR. ALLEN: Go back one slide.

MR. TAVERNA: The objectives are --

MR. ALLEN: Okay. Cover this slide again?

MR. TAVERNA: Yeah. Not a problem. Can you hear me okay right now? Can you hear me? Hello?

MR. ALLEN: Yes.

MR. TAVERNA: Can you hear me? Oh, okay.

MR. ALLEN: Yes, I can hear you.

MR. TAVERNA: All right. So okay, I'll just start over from this slide. The NRC objective of the inspection program is to obtain information through direct observation and verification of licensee activities to determine whether the site is being decommissioned safely. Its operations and termination activities -- license termination activities are in conformance with NRC regulatory requirements, the site's licensing basis, and any commitments and management controls the licensees has taken upon themselves.

Next slide.

So we schedule our inspections to be on site as much as we can during higher-risk activities.

We have the authority to look in great detail at a

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variety of licensee activities and programs. We have regular meetings or calls with the licensees going over current site activities and any upcoming activities. For Crystal River, as an example, we have regular scheduled meetings every two weeks. So as the amount and complexity of decommissioning work increases, so does the number of inspection activities commensurate with the risks.

Next slide, please.

So the region -- the regional inspectors develops a master inspection plan in advance of performing the annual inspections for concerning activities that I'd see with the undertaking during the upcoming year. And we coordinate the scope and timing of the inspections with the NRC's program office. The inspection effort includes reviewing correspondence and previous inspections, and then we perform the inspection, and then we identify any findings or violations, and we communicate these to the licensee during an exit meeting. And again, violations are handled in accordance with the NRC enforcement policy.

Just one thing about scheduling, the master inspection plan. We kind of have to be kind of flexible with that. The scheduling can slide in

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decommissioning. So that's why it's important to have regular calls with the licensee, as I mentioned before, to understand what's going on. And we are a team of inspectors. So if I can't go, another inspector can take my place to observe, like, a higher-risk activity that I that I can't go, things like that.

Next slide, please.

So after the inspection is completed, the inspector performs a debrief of the findings or any observations from during the inspection. We debrief that with NRC management, and typically -- or typically, usually during the week, but sometimes it can be returned from -- returning from the office, or returning from the site to the office to debrief with NRC management. The NRC inspection report is typically issued within 45 days after the inspection is complete. Previous reports for Crystal River can be searched and located using the docket number, which is shown on the slide here. But yeah, you can find previous reports and other documents associated with that docket number.

That's all I have. Thank you again.

MR. ALLEN: All right. Okay.

Next slide, Scott.

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So we are we are looking to obtain any comments from the public. There are different -- several different ways that you can do that. You can provide them tonight during the public meeting, which is being transcribed. If you are participating by computer, you just can select the raise hand icon. If you are participating by phone, just press star five to raise your hand. Once you -- and then you can raise -- press star five to lower your hand once you've been acknowledged. The team's facilitator will identify who is going to be -- who is going to be speaking and move over to that microphone after seeing your raised hand. If you are joining by phone, be -- please be aware it will take about four seconds for the system to instruct the caller to press -- and you can press star six to unmute your microphone.

And when you're -- after your microphone is unmuted, please introduce yourself, clearly state your name and your affiliation for the court reporter, and your microphone will be disabled after you are done.

Next slide.

You can also provide comments by mail. The address is on the screen. You can also provide comments through the federal rulemaking website. If

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you go -- you use the link on the screen, search by docket ID NRC-2026-1816, and please be aware that comments are due by June 23rd of 2026.

Next slide, please.

We're also looking to get any kind of feedback that you might have on how -- on our performance on the public meeting. You would -- there's a couple of ways that you can provide those comments. You can scan the QR code that's on the screen. You can also go to the public meeting, find the public meeting notice on the NRC public website, press the "More" link, and then press "Meeting feedback," the "Meeting feedback" link on the "Meeting details" page. And for those folks that are in the room, we've also got some hard copies in the back that you can fill out if you like.

Next slide, please.

With that, I'll open it up for discussion, questions, and comments. Oh, and if -- for those folks that are in the room, if you'd like to make a comment, we would ask that you come up here so that the court reporter can hear you. And I'd like to remind you to just identify yourself and your affiliation before asking your question.

Well, there are no questions from the

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room. Any questions online? I'm not going to -- it's really, you know, too soon to try to just go ahead and end the meeting.

MS. WHITE: (Inaudible).

MR. ALLEN: Yeah, we can do that.

So unless there was -- I'm thinking back over, folks that introduced themselves, and I believe about the only person that was participating online, other -- there was only one person participating online that wasn't with the NRC. I don't -- and so unless that has changed -- yeah, he's the only person that wasn't with the NRC. Yeah.

So with that, I think we can -- I mean, we're not going to, like, just end the meeting. But I want to thank everybody for their participation in showing up. But if you -- but feel free to go if you'd like. Thank you very much. Okay. Yeah. Yeah.

So for those folks online, you know, we will be -- we will stay here until about 6:30, just in case somebody does join.

Yes, I was trying to figure out who that was.

Excuse me. Ms. Wood? Ms. Jennifer Wood? She might have stepped away from her mic.

MS. WHITE: Ms. Jennifer Wood, if you'd

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like to introduce yourself. We're still keeping the meeting open until 6:30.

MR. ALLEN: Okay, folks. It's 6:29. I realize it's not quite 6:30, but I'm going to go ahead and call it. Thank you very much everybody for your participation and support. It was very helpful. Thank you very much. You all have a good evening. Bye.

(Whereupon, the above-entitled matter went off the record at 6:29 p.m.)

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